

CLAIMS:

What is claimed:

1. A plastic pallet that passes the Underwriters Laboratory UL 2335 protocol for pallets wherein said pallet comprises at least one resin selected from the group consisting of:

(a) polyphenylene ether resin and blends containing polyphenylene ether resin,

SUB (b) polycarbonate resin and blends containing polycarbonate resin,

67 (c) vinyl aromatic graft copolymer resin,

(d) polyetherimide resin and blends containing polyetherimide resin, and

(e) thermosetting resins.

2. The plastic ~~pallet~~ ^{resin pallet} of claim 1 wherein the resin comprises:

(a) a polyphenylene ether resin,

(b) a polystyrene resin, and

(c) an organophosphate.

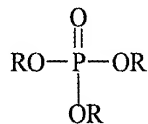
3. The plastic ~~pallet~~ ^{resin pallet} of claim 2 wherein the resin comprises:

(a) about 30 to about 70 parts of the polyphenylene ether resin,

(b) about 20 to about 60 parts of the polystyrene resin, and

(c) about 10 to about 30 parts of the organophosphate, wherein all weights are based on 100 parts by weight of (a), (b), and (c) together.

- ✓ 4. The plastic pallet of claim 2 wherein the organophosphate is an aromatic phosphate compound of the formula



where R is the same or different and is alkyl, cycloalkyl, aryl, alkyl substituted aryl, halogen substituted aryl, aryl substituted alkyl, halogen, or a combination of any of the foregoing, provided at least one R is aryl.

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SUB 67 Cont.

Sub 2
5. The plastic ^{pallet}~~pallet~~ of claim 1 wherein the resin comprises:

- (a) a polycarbonate resin,
- (b) an acrylonitrile-butadiene-styrene resin, and
- (c) an organophosphate resin.

6. The plastic ^{resin}~~pallet~~ of claim 1 wherein the resin comprises a vinyl aromatic graft copolymer selected from the group consisting of acrylonitrile-butadiene-styrene (ABS), acrylonitrile-styrene-butyl acrylate (ASA), methylmethacrylate-acrylonitrile-butadiene styrene (MABS), and acrylonitrile-ethylene-propylene-non-conjugated diene-styrene (AES).

7. The plastic ^{resin}~~pallet~~ of claim 1 wherein the resin comprises a polyetherimide resin.

8. The plastic ^{pallet}~~pallet~~ of claim 1 wherein the resin comprises at least one thermosetting resin selected from the group consisting of epoxy, phenolic, alkyds, allyl, formaldehyde, furan, polyester, polyimide, polyurethane, mineral filled silicone, bis-maleimides, cyanate esters, vinyl, and benzocyclobutene resins.

9. The plastic pallet of claim 1 wherein the pallet has at least one deck containing holes.

10. The plastic pallet of claim 1 wherein the resin comprises at least one flame retardant.

11. A method for making a plastic pallet that passes the Underwriters Laboratory UL 2335 protocol for pallets wherein said method comprises molding a composition comprising at least one resin selected from the group consisting of:

- Sub 2
a2
- (a) polyphenylene ether resin and blends containing polyphenylene ether resin,
 - (b) polycarbonate resin and blends containing polycarbonate resin,
 - (c) vinyl aromatic graft copolymer resin,
 - (d) polyetherimide resin and blends containing polyetherimide resin,
- and

(e) thermosetting resins.

12. The method of claim 11 wherein the ~~resin~~ ^{pallet} comprises:

- (a) a polyphenylene ether resin,
- (b) a polystyrene resin, and
- (c) an organophosphate.

13. The method of claim 11 wherein the ~~resin~~ ^{pallet} comprises:

- (a) a polycarbonate resin,
- (b) an acrylonitrile-butadiene-styrene resin, and
- (c) an organophosphate resin.

14. The method of claim 11 wherein the ~~resin~~ ^{pallet} comprises a polyetherimide resin.

15. The method of claim 11 wherein the ~~resin~~ ^{pallet} comprises at least one thermosetting resin selected from the group consisting of epoxy, phenolic, alkyds, allyl, formaldehyde, furan, polyester, polyimide, polyurethane, mineral filled silicone, bis-maleimides, cyanate esters, vinyl, and benzocyclobutene resins.

16. The method of claim 11 wherein the resin comprises at least one flame retardant.

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